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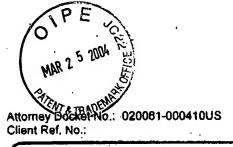
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# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	ntion METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS		
As the below named inventor(s), I/we declare that:			
This declaration is direct	ted to:	•	
	☐ The attached applicat	iợn, or	9
	Application No. 10/62	2,081, filed on July 16, 2003	3,
	as amended on _	(if applicable);	į
I/we believe that I/we am/a sought;	re the original and first inventor(s) of	the subject matter which is clai	med and for which a patent is
I/we have reviewed and un amendment specifically ref	nderstand the contents of the above-iferred to above;	dentified application, including t	he claims, as amended by any
I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT! International filing date of the continuation-in-part application.			
All statements made herein of my/our own knowledge are true; all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful fathe statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.			
FULL NAME OF INVENTOR(S)			
	E SIPPENS GROENEWEGEN	Date:	3/18/04
Signature:	#	Citizen of:	US
Inventor 2 OMA	IR AMIRANA	Date:	
Signature:	TO THE TOTAL PROPERTY OF THE TOTAL PROPERTY	: Citizen of:	US
Inventor 3 TERF	RANCE RANSBURY	Date:	
Signature:		Citizen of:	US
Inventor 4 SCO	TT DENTINO	Date:	
Signature:		Citizen of:	US
☐ Additional Inventors are being named onadditional form(s) attached hereto.			

Attorney Docket No.: 020061-000410US Client Ref. No.:

PTO/\$B/01A (08-03)

#### DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN **APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Inventi		HODS AND APPARAT		DIAGNOSIS OF
As the below named inventor(s), I/we declare that:				
This declaration is o	directed to:			
		The attached application	, or	
	$\boxtimes$	Application No. 10/622,	081, filed on July 16, 200	03,
		as amended on	(if applicable);	· ·
I/we believe that I/we sought;	arn/are the orig	inal and first Inventor(s) of th	e subject matter which is cl	aimed and for which a patent Is
I/we have reviewed ar amendment specifical	nd understand t ly referred to al	he contents of the above-ide bove;	ntified application, including	the claims, as amended by any
I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all Information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.				
All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.				
FULL NAME OF INVENTOR(S)				
Inventor 1 A	ARNE SIPPENS GROENEWEGEN Date:			
Signature:	Citizen of: US			
Inventor 2	MAR AMIRA	<u> </u>	Date:	3/19/04
Signature: Lucy Clustrace, MD Citizen of: US				
Inventor 3 <u>T</u>	ERRANCE R	ANSBURY	Date:	
Signature:			Citizen of:	us
Inventor 4 S	COTT DENT	INO	Date:	
Signature:	gnature: Citizen of: US			
Additional inventors are being named on additional form(s) attached hereto.				

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	METHODS AND APPARATUS FOR E MYOCARDIAL INFARCTIONS	NHANCING DIAGNOSIS OF	
As the below named inventor(s), I/we declare that:			
This declaration is directed	ed to:		
	☐ The attached application, or		
	Application No. 10/622,081, filed on	ı July 16, 2003,	
	as amended on (if application)	able);	
I/we believe that I/we am/are sought;	e the original and first inventor(s) of the subject mat	tter which is claimed and for which a patent is	
I/we have reviewed and und amendment specifically refe	lerstand the contents of the above-identified applications to above;	ation, including the claims, as amended by any	
I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.			
All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.			
FULL NAME OF INVENTOR(S)			
Inventor 1 ARNE	SIPPENS GROENEWEGEN	Date:	
Signature:		Citizen of: US	
Inventor 2 OMAR	AMIRANA	Date:	
Signature:		Citizen of: US	
	ANCE RANSBURY	Date: 11/24/03	
Signature:	Leuauc Canstry	Citizen of: US	
Inventor 4 SCOT	T DENTINO	Date:	
Signature:		Citizen of: US	
Additional inventors are being named on additional form(s) attached hereto.			



Attorney Docket No.: 020061-000410US Client Ref. No.:

PTO/SB/01A (08-03)

### DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

Title of Invention	ntion METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS					
As the below named inventor(s), I/we declare that:						
This declaration is direct	eted to:					
		The attached ap	oplication, or			
	$\boxtimes$	Application No.	10/622,081, filed on	July 16, 200	3,	
		as amended	d on (if applicat	ole);		
I/we believe that I/we am/s sought;	are the orig	inal and first invent	or(s) of the subject matte	er which is cla	lmed and for which a patent is	
I/we have reviewed and u amendment specifically re	nderstand ferred to a	the contents of the above;	above-identified applicat	ion, including	the claims, as amended by any	
metarial to natonishible	as defined en the fili	in 37 CFR 156	including for continuati	ion-in-part ap	all information known to me/us plications, material information PCT International filing date	Which
All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.						
SULL MARK OF INVE	NTOR(S					
FULL NAME OF INVE		NS GROENEWE	GEN	Date:		
Signature:				Citizen of:	US	
Inventor 2 OM/	R AMIRA	NA		Date:		
Signature:				Citizen of:	US	10 To 2
Inventor 3 TER	RANCE F	RANSBURY		Date:		
Signature:				Citizen of:	US	
Inventor 4 G. SCC	TT DENT	TINO		Date:	3/17/04	
Signature:	1NZ	114		Citizen of:	US	
☐ Additional inventors	are being i	named on ad	iditional form(s) attached	l hereto.		
60074326 v4				•		



**POWER OF ATTORNEY OR** 

PTO/SB/81 (02-01)

Approved for use through 10/31/2002. OMB 0651-0035 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

> Methods and Apparatus for **Enhancing Diagnosis of Myocardial**

> ARNE SIPPENS GROENEWEGEN

10/622,081

07/16/2003

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. **Application Number** 

**First Named Inventor** 

**Filing Date** 

#### Title AUTHORIZATION OF AGENT Infarctions 3736 **Group Art Unit Examiner Name** 20061000410 Attorney Docket Number I hereby appoint: Place Customer ☑ Practitioners at Customer Number 20350 Number Bar Code Label here ☐ Practitioner(s) named below: Registration Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith. Please change the correspondence address for the above-identified application to: ☐ The above-mentioned Customer Number. OR MARK D. BARRISH Individual Name Address Address ZIP City State Country Fax Telephone I am the: Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96). SIGNATURE of Applicant or Assignee of Record Name TERRY RANSBURY, President Signature Date NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*. ★ \*Total of 1 form(s) is submitted.

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PTO/SB/96 (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRIBLE

STATEMENT UNDER	₹ 37 CFR 3.73(b)		
Applicant/Patent Owner: ARNE SIPPENS GROENEWEGEN et al.			
Application No. (Patent No. 10/002 004 Filed/Jacus Potos 07/16/2002			
Application No./Patent No.: 10/622,081 Filed/Issue Date: 07/16/2003  Entitled: METHOD AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS			
CARDIAC FOCUS, INC. , a CALIFO			
	ee, e.g., corporation, partnership, university, government agency, etc.)		
states that it is:			
1.  the assignee of the entire right, title, and interest; or	r		
2. an assignee of an undivided part interest			
in the patent application/patent identified above by virtue of either	er:		
	A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.		
OR			
B. A chain of title from the inventor(s), of the patent application shown below:	on/patent identified above, to the current assignee as		
To:  The document was recorded in the United States Patent and Trademark Office at  Reel, Frame, or for which a copy thereof is attached.			
2. From:	o :		
The document was recorded in the United States Pat Reel, Frame, or for which a copy thereo			
3. From:	o :		
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.			
Additional documents in the chain of title are listed on a supplemental sheet.			
Copies of assignments or other documents in the chain of title are attached.  [NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8]			
The undersigned (whose title is supplied below) is empowered to	o sign this statement on behalf of the assignee.		
3/22/04	News Perst		
Date	Signature		
	TERRY RANSBURY		
	Typed or printed name		
	PRESIDENT		
	Title		

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

#### ASSIGNMENT OF PATENT APPLICATION

JOINT

	WHEREAS, ARNE SIP	PPENS GROENEWEGEN of 5583 GULL Prairie Road, Kalamico
MI 49048	OMAR AMI	RANA of
SCOTT DENTI	NO of 721 Rosedale, #8. (	RANSBURY of 112 Simerville Road, Chapel Hill, NC 27517; and Capitola, CA 95010 hereinafter referred to as "Assignors," are the et forth in the below-identified application for United States Letters Patent:
	Title of Invention:	METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS
	Date(s) of execution of	Declaration: 3.18-04
	Filing Date:	July 16, 2003
	Application No.:	10/622,081; and
112 Simerville F interest in the in the same;	Road, Chapel Hill, NC 27 vention and application ar	FION MEDICAL, INC., a corporation of the State of California, located at 517, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an and in any U.S. Letters Patent and Registrations which may be granted on consideration, receipt of which is hereby acknowledged by Assignors,
invention and ap in and to any Le all countries thro Convention. Th assigns as fully made, for the fu	oplication and to all foreig tters Patent and Registration oughout the world, and to be right, title and interest is and exclusively as it would the term of any Letters Pate	sents do assign to Assignee all right, title and interest in and to the n counterparts (including patent, utility model and industrial designs), and ons which may hereafter be granted on the same in the United States and claim the priority from the application as provided by the Paris is to be held and enjoyed by Assignee and Assignee's successors and dhave been held and enjoyed by Assignors had this Assignment not been and Registrations which may be granted thereon, or of any division, substitution, conversion, reissue, prolongation or extension thereof.
any improvement applications and or maintain Lett	Assignee in the prosecutionts, (b) execute, verify, acl instruments of transfer, a	that they will, without charge to Assignee, but at Assignee's expense, (a) in of U.S. Patent applications and foreign counterparts on the invention and knowledge and deliver all such further papers, including patent and (c) perform such other acts as Assignee lawfully may request to obtain as for the invention and improvements in any and all countries, and to vest accessors and assigns.
	IN TESTIMONY WHE	REOF, Assignors have signed their names on the dates indicated.
Dated: 3	118/04	ARNE SIPPENS GROENEWEGEN
Dated:	·	OMAR AMIRANA
Dated:		TERRANCE RANSBURY
Dated:		SCOTT DENTINO

60074451 v1

### ASSIGNMENT OF PATENT APPLICATION

	/ 14901 De Veau Place,	JOINT
WHEREAS ARNE SIPP	ENS GROENEWEGEN of	
: OMAR AMIR	ANA of Minuetonka, MINNESOTA	55345
TERRANCE R. SCOTT DENTINO of 721 Rosedale, #8, Ca	ANSBURY of 112 Simerville Road, Chapel Hill, NC 27: spitola, CA 95010 hereinafter referred to as "Assignors," forth in the below-identified application for United States	517; and are the
Title of Invention:	METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS	
Date(s) of execution of De	eclaration: 3/19/04	
Filing Date:	July 16, 2003	
Application No.:	10/622,081; and	
112 Simerville Road, Chapel Hill, NC 2751	ON MEDICAL, INC., a corporation of the State of Califor 17, hereinafter referred to as "ASSIGNEE," is desirous of in any U.S. Letters Patent and Registrations which may b	acquiring an
Assignors have assigned, and by these prese invention and application and to all foreign in and to any Letters Patent and Registration all countries throughout the world, and to cl Convention. The right, title and interest is to assigns as fully and exclusively as it would made, for the full term of any Letters Patent.	nsideration, receipt of which is hereby acknowledged by A control of assign to Assignee all right, title and interest in and counterparts (including patent, utility model and industrians which may hereafter be granted on the same in the Unitain the priority from the application as provided by the Poobe held and enjoyed by Assignee and Assignee's successhave been held and enjoyed by Assignors had this Assignand Registrations which may be granted thereon, or of an obstitution, conversion, reissue, prolongation or extension	I to the I designs), and led States and aris sors and ment not been ly division,
cooperate with Assignee in the prosecution any improvements, (b) execute, verify, acknapplications and instruments of transfer, and	at they will, without charge to Assignee, but at Assignee's of U.S. Patent applications and foreign counterparts on the lowledge and deliver all such further papers, including pate (c) perform such other acts as Assignee lawfully may receive for the invention and improvements in any and all countressors and assigns.	e invention and cent quest to obtain
IN TESTIMONY WHER	EOF, Assignors have signed their names on the dates indi	cated.
Dated:	ARME SIPPENS PROENEWEGEN	
Dated: 3/19/04	MAR AMIRANA  OMAR AMIRANA	·
Dated:		
	TERRANCE RANSBURY	
Dated:	SCOTT DENTINO	

60074451 v1

### ASSIGNMENT OF PATENT APPLICATION

**JOINT** 

WHEREAS, ARNE SIPPENSGROENEWEGEN of 3662 Hillside Drive, Burlingame, CA 94010; OMAR AMIRANA of 1576 Union Street, #2, San Francisco, CA 94123; TERRANCE RANSBURY of 2560

Grappa Place, P referred to as "A	leasanton, CA 94566; and	SCOTT DENTINO of 721 Rosedale, #8, Capitola, CA 95010 hereinafter rs of the invention described and set forth in the below-identified t:
	Title of Invention:	METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS
	Date(s) of execution of I	Declaration: 11 - 24 · 03
	Filing Date:	July 16, 2003
	Application No.:	10/622,081; and
	ace, Pleasanton, CA, 94566	ION MEDICAL, INC., a corporation of the State of California, located at 6, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an d in any U.S. Letters Patent and Registrations which may be granted on
invention and ap in and to any Le all countries thro Convention. Th assigns as fully a made, for the fu- renewal, continu- cooperate with A any improvement applications and	oplication and to all foreign etters Patent and Registration oughout the world, and to do he right, title and interest is and exclusively as it would ll term of any Letters Pater lation in whole or in part, so Assignors further agree to Assignee in the prosecution ints, (b) execute, verify, ack I instruments of transfer, an	sents do assign to Assignee all right, title and interest in and to the acounterparts (including patent, utility model and industrial designs), and ons which may hereafter be granted on the same in the United States and claim the priority from the application as provided by the Paris to be held and enjoyed by Assignee and Assignee's successors and I have been held and enjoyed by Assignors had this Assignment not been and Registrations which may be granted thereon, or of any division, substitution, conversion, reissue, prolongation or extension thereof. That they will, without charge to Assignee, but at Assignee's expense, (a) in of U.S. Patent applications and foreign counterparts on the invention and knowledge and deliver all such further papers, including patent and (c) perform such other acts as Assignee lawfully may request to obtain as for the invention and improvements in any and all countries, and to vestigate the same and the same and to same and the same an
title thereto in A	ssignee, or Assignee's suc IN TESTIMONY WHE	cessors and assigns.  REOF, Assignors have signed their names on the dates indicated.
Dated:		ARNE SIPPENSGROENEWEGEN
Dated:		OMAR AMIRANA
Dated://	124/03	TERRANCE RANSBURY
Dated:		SCOTT DENTINO



### ASSIGNMENT OF PATENT APPLICATION

	IODIT
	JOINT
•	IPPENS GROENEWEGEN of
OMAR AN	E RANSBURY of 112 Simerville Road, Chapel Hill, NC 27517; and
SCOTT DENTINO of 721 Rosedale, #8	RANSBURY of 112 Simerville Road, Chapet Hill, NC 27317; and C 27317; a
Title of Invention:	METHODS AND APPARATUS FOR ENHANCING DIAGNOSIS OF MYOCARDIAL INFARCTIONS
Date(s) of execution of	f Declaration: 3/17/04
Filing Date:	July 16, 2003
Application No.:	10/622,081; and
112 Simerville Road, Chapel Hill, NC	JTION MEDICAL, INC., a corporation of the State of California, located at 27517, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an and in any U.S. Letters Patent and Registrations which may be granted on
Assignors have assigned, and by these p invention and application and to all fore in and to any Letters Patent and Registra all countries throughout the world, and to Convention. The right, title and interest assigns as fully and exclusively as it wo made, for the full term of any Letters Pa	e consideration, receipt of which is hereby acknowledged by Assignors, resents do assign to Assignee all right, title and interest in and to the ign counterparts (including patent, utility model and industrial designs), and ations which may hereafter be granted on the same in the United States and to claim the priority from the application as provided by the Paris is to be held and enjoyed by Assignee and Assignee's successors and uld have been held and enjoyed by Assignors had this Assignment not been tent and Registrations which may be granted thereon, or of any division, t, substitution, conversion, reissue, prolongation or extension thereof.
cooperate with Assignee in the prosecut any improvements, (b) execute, verify, a applications and instruments of transfer,	the that they will, without charge to Assignee, but at Assignee's expense, (a) ion of U.S. Patent applications and foreign counterparts on the invention and acknowledge and deliver all such further papers, including patent and (c) perform such other acts as Assignee lawfully may request to obtain ions for the invention and improvements in any and all countries, and to vest successors and assigns.
in testimony wh	IEREOF, Assignors have signed their names on the dates indicated.
Dated:	ARNE SIPPENS GROENEWEGEN
Dated:	OMAR AMIRANA
Dated:	
Dated: 3/17/04	TERRANCE RANSBURY  SCOTT DENTINO

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